

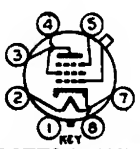


6S7, 6S7-G



6S7-G

## TRIPLE-GRID SUPER-CONTROL AMPLIFIER

|                                     |                                                                                   |                             |
|-------------------------------------|-----------------------------------------------------------------------------------|-----------------------------|
| Heater ■                            | Coated Unipotential Cathode                                                       |                             |
| Voltage                             | 6.3                                                                               | a-c or d-c volts            |
| Current                             | 0.15                                                                              | amp.                        |
|                                     | 6S7                                                                               | 6S7-G                       |
| Direct Interelectrode Cap.          | ▲                                                                                 | ▲▲                          |
| Grid to Plate                       | 0.005 max.                                                                        | 0.008 max. μf               |
| Input                               | 6.5                                                                               | 4.4 μf                      |
| Output                              | 10.5                                                                              | 8 μf                        |
| Overall Length                      | 3-1/8" max.                                                                       | { 4-7/32" to 4-15/32"       |
| Maximum Diameter                    | 1-5/16"                                                                           | 1-9/16"                     |
| Bulb                                | Metal Shell, MT-8                                                                 | ST-12                       |
| Cap                                 | Miniature                                                                         | Skirted Min.                |
| Base                                | { Small Wafer { Octal 7-Pin                                                       | { Small Shell { Octal 7-Pin |
| Basing Designation                  | 7R                                                                                | G-7R                        |
| Pin 1 { 6S7, Shell { 6S7-G, No Con. |                                                                                   | Pin 5 - Suppressor          |
| Pin 2 - Heater                      |                                                                                   | Pin 7 - Heater              |
| Pin 3 - Plate                       |                                                                                   | Pin 8 - Cathode             |
| Pin 4 - Screen                      |                                                                                   | Cap - Grid                  |
| Mounting Position                   | Any                                                                               |                             |
|                                     |  |                             |
|                                     | BOTTOM VIEW                                                                       |                             |
|                                     | AMPLIFIER - Class A <sub>1</sub>                                                  |                             |
| Plate Voltage                       | 300 max.                                                                          | volts                       |
| Screen Voltage                      | 100 max.                                                                          | volts                       |
| Screen Supply Voltage               | 300 max.                                                                          | volts                       |
| Grid Voltage                        | 0 min.                                                                            | volts                       |
| Plate Dissipation                   | 2.25 max.                                                                         | watts                       |
| Screen Dissipation                  | 0.25 max.                                                                         | watt                        |
| Typical Operation:                  |                                                                                   |                             |
| Plate                               | 135                                                                               | 250 volts                   |
| Screen                              | 67.5                                                                              | 100 volts                   |
| Grid                                | -3                                                                                | -3 volts                    |
| Suppressor                          | Connected to cathode at socket                                                    |                             |
| Plate Res. (approx.)                | 1                                                                                 | 1 megohm                    |
| Transcond.                          | 1250                                                                              | 1750 μmhos                  |
| Transcond.                          | 10●                                                                               | 10▲ μmhos                   |
| Plate Cur.                          | 3.7                                                                               | 8.5 ma.                     |
| Screen Cur.                         | 0.9                                                                               | 2 ma.                       |

■ In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

▲ With shell connected to cathode.

▲▲ With close-fitting shield connected to cathode.

● With grid bias of -25 volts.

▲ With grid bias of -38.5 volts.

FEB. 2, 1940

RCA RADOTRON DIVISION  
RCA MANUFACTURING COMPANY, INC.

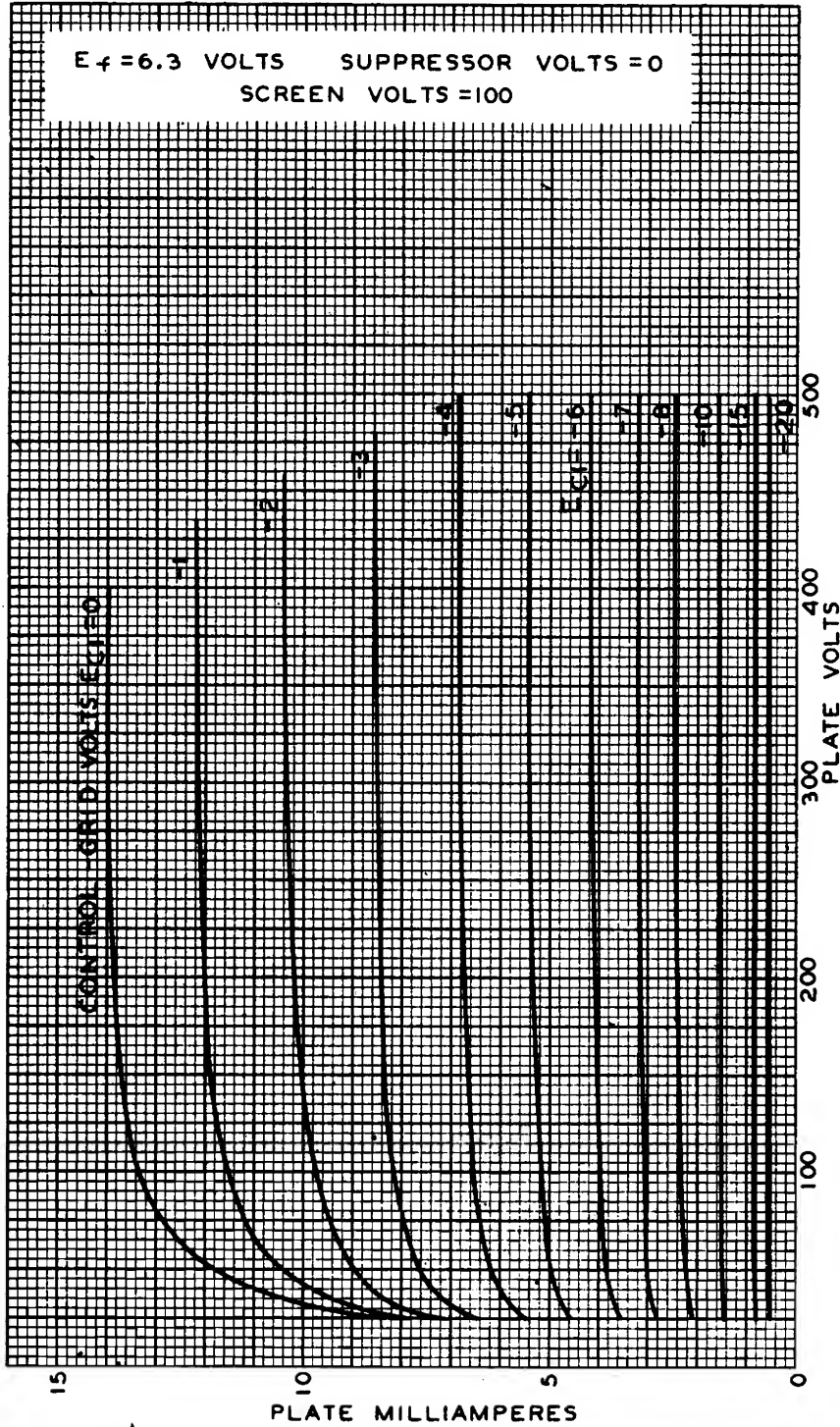
DATA

6S7



6S7

# AVERAGE PLATE CHARACTERISTICS



JAN. 17, 1938

RCA RADOTRON DIVISION  
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92C-4868